

Claims

1. A construction machine refueling system for receiving information transmitted from a construction machine at a receiver provided in a base station, the construction machine comprising:

a detector that detects a residual fuel amount; and  
a transmitter that, when the residual fuel amount is less than a specified value, transmits information indicating a fact that the residual fuel amount is less than a specified value, to the base station.

2. A construction machine refueling system according to claim 1, wherein

said transmitter transmits information representing the residual fuel amount when the residual fuel amount is less than a specified value.

3. A construction machine refueling system according to claim 1 or claim 2, wherein:

said construction machine is further provided with a positional information detector that detects positional information of the construction machine; and

said transmitter also transmits the detected positional information when transmitting.

4. A construction machine refueling system according to any one of claim 1 through claim 3, further comprising:

a base station side transmitter that is provided at the  
5 base station side and transmits a request of refueling based on information received by the receiver, to a tie-up station.

5. A construction machine refueling system according to any one of claim 1 through claim 3, further comprising:

10 a base station side transmitter that is provided at the base station side and transmits information received by the receiver to a user side receiver that is provided at a user side of the construction machine.

15 6. A construction machine refueling system for receiving information transmitted from a construction machine at a receiver provided in a base station, wherein:

the construction machine comprises a detector that detects residual fuel amount, and a transmitter that  
20 transmits the residual fuel amount detected by the detector to the base station; and

the base station comprises a determination unit that determines whether or not the received residual fuel amount is lower than a specified value.

25

7. A construction machine, comprising:

a detector that detects a residual fuel amount; and  
a transmitter that, when the residual fuel amount is  
lower than a specified value, transmits information  
5 indicating a fact that the residual fuel amount is lower than  
a specified value, to a base station.

8. A construction machine refueling system, comprising:

a transmitter that is provided in a construction  
10 machine and transmits information relating to refueling;

a receiver that is provided at a place far from the  
construction machine and receives the information relating  
to refueling transmitted from the construction machine;

a selector that selects an optimum refueling location  
15 from a plurality of refueling locations based on information  
received by the receiver; and

a communications device that carries out communication  
with the refueling location selected by said selector to send  
a request for refueling of the construction machine.

20

9. A construction machine refueling system, comprising:

a receiver that receives information relating to  
refueling transmitted from a construction machine at a  
distant place;

25 a selector that selects an optimum refueling location

from a plurality of refueling locations based on information received by the receiver; and

a communications device that carries out communication with the refueling location selected by the selector to send  
5 a request for refueling of the construction machine.

10. A construction machine refueling system according to claim 8 or claim 9, wherein said selector selects the optimum refueling location based on a residual fuel amount  
10 transmitted from the construction machine.

11. A construction machine refueling system according to claim 8 or claim 9, wherein said selector reads out data relating to the plurality of refueling locations from a  
15 specified database, and selects the optimum refueling location based on the read out data.

12. A construction machine refueling system according to claim 11, wherein said selector selects the optimum refueling  
20 location based on location information for the refueling locations read out from the database.

13. A construction machine refueling system according to claim 11, wherein said selector selects the optimum refueling  
25 location based on fuel unit cost information for the refueling

locations read out from the database.

14. A construction machine refueling system, comprising:  
a transmitter that transmits refueling information  
5 including an amount of fuel to be supplied to a construction  
machine;  
a receiver that receives the transmitted information;  
an invoice creating unit that creates an invoice based  
on the information received by the receiver; and  
10 a transmitter that transmits the created invoice to a  
customer.
15. A construction machine refueling system according to  
claim 14, wherein the transmitter is provided in the  
15 construction machine.